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Attorney's Docket No.: 08305/124001 / PBIT-0164.00/US

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Kwang-Bo Cho Art Unit: 2858
Serial No.: 10/222,773 Examiner: Unknown

Filed : August 16, 2002

Title : ON-CHIP ADC TEST FOR IMAGE SENSORS

Commissioner for Patents Washington, D.C. 20231

#### DECLARATION BY THE INVENTOR

As a below-named inventor(s), I hereby electare that:

My residence, post office address and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

#### ON-CHIP ADC TEST FOR IMAGE SENSORS

the specification of which:

is attached hereto.

was filed on August 16, 2002, and identified as Attorney Docket No. 08305-124001.

was filed on August 16, 2002, as Application Serial No. 10/222,773, and was amended on.

I hereby state that I have reviewed and ur derstand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

#### CERTIFICATE OF MAILING BY FIRST CLASS MAIL

hereby that this correspondence is being deposited with the United states Postal Service as first class mail with sufficient postage on the late indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit

Signatury

Typed or Printed Name of Person Signing Confidence

Autorney's Docket No.: 08305/124001 / PBIT-0164.00/US

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 CFR §1.55(a).

I hereby claim the benefit under Title 35, United States Code, §119(e)(1) of any United States provisional application(s) listed below:

U.S. Serial No.	Filing Date	Status
60/313,122	08/16/2001	Pending

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose all information I know to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application:

U.S. Serial No.	Filing Date	Status

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

Country	Application No.	Filing Date	Priority Claimed
			[] Yes [] No [] Yes [] No

I hereby declare that all statement made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States

Attorney's Docket No.: 08305/124001 / PBIT-0164.00/US

Code and that such willful false statements may eopardize the validity of the application or any patent issued thereon.

Full name of inventor: KWANG-BO CF.O

Inventor's signature:

Date: // 2 / /200 2

Residence: 3768 Bagley Avenue, #210

Los Angeles, CA 90034

Citizen of: KOREA (South)

Post Office Address: 135 North Los Robles Avenue

Pasadena, CA 91101

## SCH/rpi

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Docket No.: M4065.0805/P805 (PATENT)

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Kwang-Bo Cho

Application No.: 10/222,773

Group Art Unit: 2858

Filed: August 16, 2002

Examiner: Not Yet Assigned

For: ON-CHIP ADC TEST FOR IMAGE

SENSORS

# REVOCATION OF POWER OF ATTORNEY AND NEW POWER OF ATTORNEY

Commissioner for Patents Washington, DC 20231

Dear Sir:

The undersigned, a duly authorized representative of Micron Technology, Inc. and current assignee of this application as demonstrated by the attached copy of the assignment, hereby revokes all Powers of Attorney previously given, and hereby appoints the following attorneys and/or agents to prosecute this application and transact all business in the U.S. Patent and Trademark Office connected herewith:

Gary M. Hoffman	26,411	Ryan H. Flax	48,141	Ellen S. Tao	43,383
Thomas J. D'Amico	28,371	Richard LaCava	41,135	Gary L. Veron	39,05 <i>7</i>
Donald A. Gregory	28,954	John C. Luce	34,378	Steven I. Weisburd	27,409
James W. Brady, Jr.	32,115	Peter McGee	35,947	Peter Zura	48,196
Jon D. Grossman	32,699	Edward A. Meilman	24,735	Jeremy A. Cubert	40,399
Mark J. Thronson	33,082			Gianni Minutoli	41,198
Eric Oliver	35,307	William E. Powell, III	39,803	Michael Bergman	42,318
Laurence E. Fisher	37,131	Steven S. Rubin	43,063	Salvatore P. Tamburo	45,153
Ian R. Blum	42,336	Michael J. Scheer	34,425	Peter A. Veytsman	45,920
Gabriela I. Coman	50,515	Stephen A. Soffen	31,063	Christopher S. Chow	46,493

Docket No.: M4065.0805/P805 Application No.: 10/222,773

Catherine A. Ferguson

40,877

Christopher M. Tanner

41,518

All attorneys of the law firm Dickstein Shapiro Morin & Oshinsky LLP and also, listed as follows:

Charles B. Brantley, III

38,086

Kevin D. Martin

37,882

Russell Slifer

39,838

Michael L. Lynch

30,871

David J. Paul

34,692

attorneys/agents of Micron Technology, Inc. as its attorneys with full power of substitution to prosecute this application and to transact all business in the Patent and Trademark Office in connection therewith.

Address all communications to:

Thomas J. D'Amico DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP 2101 L Street NW Washington, DC 20037-1526 (202) 785-9700

Micron Technology, Inc. For:

Michael L. Lynch

Dated: /-22-03



JUN 1 0 2002

MAY 31, 2002

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Commissioner for Trademarks Arlington, VA 22202-3513 www.uspto.gov

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UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/29/2002

REEL/FRAME: 012745/0385

NUMBER OF PAGES: 14

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

PHOTOBIT CORPORATION

DOC DATE: 11/21/2001

ASSIGNEE:

MICRON TECHNOLOGY, INC. 8000 S. FEDERAL WAY BOISE, IDAHO 83706-9632

SERIAL NUMBER: 09025079

FILING DATE: 02/17/1998

ISSUE DATE:

SERIAL NUMBER: 09031145

ISSUE DATE:

FILING DATE: 02/26/1998

PATENT NUMBER:

PATENT NUMBER:

FILING DATE: 03/11/1998

SERIAL NUMBER: 09038888

ISSUE DATE:

PATENT NUMBER:

FILING DATE: 04/23/1998

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FILING DATE: 01/16/2001

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SERIAL NUMBER: 09761868 PATENT NUMBER: ISSUE DATE: FILING DATE: 01/31/2001 SERIAL NUMBER: 09773400 ISSUE DATE: PATENT NUMBER: FILING DATE: 01/31/2001 SERIAL NUMBER: 09778151 ISSUE DATE: PATENT NUMBER: FILING DATE: 02/22/2001 SERIAL NUMBER: 09792292 ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 09792634 FILING DATE: 02/23/2001 PATENT NUMBER: ISSUE DATE: SERIAL NUMBER: 09816482 FILING DATE: 03/23/2001 ISSUE DATE: PATENT NUMBER: FILING DATE: 05/02/2001 SERIAL NUMBER: 09847894 PATENT NUMBER: ISSUE DATE: SERIAL NUMBER: 09858748 FILING DATE: 05/16/2001 ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 09859224 FILING DATE: 05/15/2001 ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 09860031 FILING DATE: 05/16/2001 ISSUE DATE: PATENT NUMBER: FILING DATE: 05/29/2001 SERIAL NUMBER: 09867846 ISSUE DATE: PATENT NUMBER: FILING DATE: 06/05/2001 SERIAL NUMBER: 09876848 ISSUE DATE: PATENT NUMBER: FILING DATE: 07/09/2001 SERIAL NUMBER: 09901280 ISSUE DATE: PATENT NUMBER: FILING DATE: 07/26/2001 SERIAL NUMBER: 09917195 ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 09922507 FILING DATE: 08/03/2001 ISSUE DATE: PATENT NUMBER: FILING DATE: 10/10/2001 SERIAL NUMBER: 09975324 ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 09976843 FILING DATE: 10/12/2001 ISSUE DATE: PATENT NUMBER: SERIAL NUMBER: 09990884 FILING DATE: 11/21/2001

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FILING DATE: 10/13/1998

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SERIAL NUMBER: 09378565 FILING DATE: 08/19/1999
PATENT NUMBER: 6239456 ISSUE DATE: 05/29/2001

JEFFREY OLSEN, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

RECC

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Commissioner for Patents: Please record the attached original docume	
1. Name of conveying party(les):  Photobit Corporation 135 North Los Robles Avenue, 7th Floor Pasadena, California 91101	Micron Technology, Inc. 8000 S. Federal Way Boise ID 83706-9632
Additional name(s) attached? ☐ Yes ❷ No	
3. Nature of conveyance:	· · · · · · · · · · · · · · · · · · ·
☑ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other:	M 9: 58 SECTION
Execution Date: November 21, 2001	Additional names/addresses attached? ☐ Yes 図 No
4. Application number(s) or patent number(s):	•
If this document is being filed with a new application, the execution	date of the application is:
A. Patent Application No(s).:	B: Patent No(s).:
SEE SCHEDULE A ATTACHED	SEE SCHEDULE B ATTACHED
Additional numbers at	tached?   Yes   No   -
<ol><li>Name/address of party to whom correspondence concerning document should be mailed:</li></ol>	6. Total number of applications/patents involved: 107
PTO CUSTOMER NO 20985	7. Total fee (37 CFR §3.41): \$4280
SCOTT C. HARRIS	☑ Enclosed ☐ Authorized to charge Deposit Account.
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4350 La Jolla Village Drive, Suite 500 San Diego, California 92122	Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
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Tota	number of pages including coversheet, attachments and document: 13
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4/10/2002 TDIAZ1 00000243 09025079 4280.04 FC:581

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I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner of Patents, Washington, D.C. 20231.

Signature (

Jere Halligan

Typed Name of Person Signing Certificate

# SCHEDULE A

Docket N .	Filing Date	Serial No.
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## SCHEDULE B

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8/19/1999	09/378,565	5/29/2001	6,239,456
	9/30/1996 10/6/1997 3/10/1998 3/11/1998 6/8/1998 9/25/1998 10/8/1998 10/13/1998 10/16/1998 11/12/1998 12/16/1998 2/4/1999 3/10/1999 3/15/1999 3/26/1999 4/1/1999 5/4/1999 7/20/1999	9/30/1996	9/30/1996

#### ASSIGNMENT OF PATENTS

This ASSIGNMENT OF PATENTS (this "Assignment of Patents"), dated as of November 21, 2001, is entered into by and among Micron Technology, Inc., a Delaware corporation ("Buyer"), Photobit Corporation, a Delaware corporation ("Parent"; Parent is sometimes referred to herein as a "Seller") and Photobit Technology Corporation, a Delaware corporation and a wholly owned subsidiary of Seller ("Subsidiary"; Parent and Subsidiary are sometimes referred to herein as a "Seller" and sometimes collectively as the "Sellers").

This Assignment of Patents is entered into pursuant to Section 6.23 of the Asset Purchase Agreement dated as of November 21, 2001, (the "Asset Purchase Agreement;" capitalized terms used herein but not otherwise defined herein shall have the same meanings assigned to them in the Asset Purchase Agreement), by and among Parent, Subsidiary, Buyer, Dr. Sabrina Kemeny, Dr. Eric Fossum, Robert Panicacci and the Seller Representative.

Pursuant to the Asset Purchase Agreement, Sellers agreed, among other things, to transfer to Buyer all of Sellers' right, title and interest in and to the Acquired Assets, in exchange for the payment by Buyer of the Purchase Price and the assumption by Buyer of the Assumed Liabilities, in each case on the terms and subject to the conditions provided in the Asset Purchase Agreement.

- 1. Assignment of Patents by Sellers. Sellers hereby irrevocably and formally grant, bargain, sell, transfer, convey, assign and deliver to Buyer all right, title and interest in and to the patents, patent applications and provisional applications owned by each Seller throughout the world, together with any and all rights of such Seller associated with inventions claimed therein and/or with the applications and patents, whether or not such patents are registered with the United States Patent and Trademark Office or other comparable governmental authority of any foreign jurisdiction (including, without limitation, those patents and applications set forth on Exhibit A hereto) (the "Assigned Patents"), free and clear of all encumbrances, together with all causes of action and other rights to sue for and remedies against past, present and future infringements of any of the foregoing, together with the right to collect damages therefore, and rights of priority and protection of interests therein under the laws of any jurisdiction worldwide and all tangible embodiments thereof, to have and to hold the same unto Buyer, its successors and assigns, for and during the existence of such rights and all renewals thereof.
- 2. <u>Further Assurances</u>. Each Seller hereby covenants and agrees that from time to time and at the expense of such Seller and without further consideration, upon request of Buyer, each Seller shall and shall cause each of its affiliates to execute and deliver such instruments and documents, and take such further actions, as Buyer reasonably may request in order to sell, convey, transfer and assign to Buyer, or to record Buyer's interest in or title to, any of the Assigned Patents.
- 3. <u>Power of Attorney</u>. Each Seller hereby constitutes and appoints Buyer as such Seller's true and lawful attorney in fact, with full power of substitution in such Seller's name and

stead, to take any and all steps, including proceedings at law, in equity or otherwise, to execute, acknowledge and deliver any and all instruments and assurances necessary or expedient in order to vest or perfect the aforesaid rights and causes of action more effectively in Buyer or to protect the same or to enforce any claim or right of any kind with respect thereto. Each Seller hereby declares that the foregoing power is coupled with an interest and as such is irrevocable.

- 4. <u>Successors and Assigns</u>. This Assignment of Patents shall be enforceable against the successors and assigns of Sellers and shall inure to the benefit of the successors and assigns of Buyer.
- 5. Governing Law. This Assignment of Patents shall be governed by and construed in accordance with the laws of the United States, in respect to patent issues and in all other respects, including as to validity, interpretation and effect, by the internal laws of the State of California, without giving effect to the conflict of laws rules thereof.

IN WITNESS WHEREOF, this Assignment of Patents has been duly executed and delivered as of the date first written above.

MICRON TECHNOLOGY, INC.
By: 25. Sarah
Printed Name: W.G. Stover, JR.  Title: Vice President of Finance and C.F.C.
Title: Vice PRESIDENT OF FINANCE AND C.F.C
PHOTOBIT CORPORATION
Ву:
Printed Name:
Title:
PHOTOBIT TECHNOLOGY CORPORATION
Ву:
Printed Name:
Title:

IN WITNESS WHEREOF, this Assignment of Patents has been duly executed and delivered as of the date first written above.

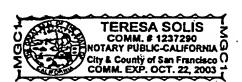
MICRON TECHNOLOGY, INC.
Ву:
Printed Name:
Title:
PHOTOBIT CORPORATION
By: See 9Cy
Printed Name: SABRINA KEMENIJ
Title:
PHOTOBIT TECHNOLOGY CORPORATION  By:
Printed Name: SABRINA KEMENT
Title: EXECUTIVE V. P.

# ACKNOWLEDGMENT - PHOTOBIT CORPORATION

STATE OF CALIFORNIA	) ) SS:
COUNTY OF SAN FRANCISCO	)

I, Teresa Solis, a Notary Public in and for said County, in the State aforesaid, DO HEREBY CERTIFY that Sabrina Kemeny, appeared before me this day in person, and acknowledged that she executed and delivered the Instrument of Assignment of Patents above as her free and voluntary act and in her representative capacity for Photobit Corporation, a Delaware corporation, acting in its representative capacity as the Chairman and CEO of Photobit Corporation., a Delaware corporation, for the uses and purposes herein set forth.

IN WITNESS WHEREOF, I have hereunto my hand and notarial seal this 21st day of November 2001.



My Commission Expires: October 22, 2003

# ACKNOWLEDGMENT- PHOTOBIT TECHNOLOGY CORPORATION

STATE OF CALIFORNIA	)
	) SS:
COUNTY OF SAN FRANCISCO	)

I, Teresa Solis, a Notary Public in and for said County, in the State aforesaid, DO HEREBY CERTIFY that Sabrina Kemeny, appeared before me this day in person, and acknowledged that she executed and delivered the Instrument of Assignment of Patents above as her free and voluntary act and in her representative capacity for Photobit Technology Corporation, a Delaware corporation, acting in their representative capacity as the Chairman and CEO of Photobit Technology Corporation, a Delaware corporation, for the uses and purposes herein set forth.

IN WITNESS WHEREOF, I have hereunto my hand and notarial seal this 21st day of November 2001.

TERESA SOLIS COMM. # 1237290 TARY PUBLIC-CALIFORNIA D City & County of San Francisco () COMM. EXP. OCT. 22, 2003

My Commission Expires: October 22, 2003

#### EXHIBIT A

Photobit Patents Issued and Pending Applications.

	Photobit Patents Issued and Penatry Applica		T
	Photobit Patent or Provisional Application Title	Description/Comments	PB NTR#
	PATENTS ISSUED		
_	Median Fitter With Embedded Analog to Digital Converter	Patent #5,995,163	9601
	Low-Voltage Common Source Switched-Capacitor Amplifier	Patent #6,049,247	9702
	Quantum Efficiency Improvements in Active Pixel Sensors	Patent #6,005,619	9704
	Bidirectional Follower for Driving a Capacitive Load	Patent #6,043,690	9719
	Analog-to-Digital Conversion	Patent #6,087,970	9603
	Low-Voltage Comparator with Wide Input Voltage Swing	Patent #6,147,519	9703
_	Programmable Analog Arithmetic Circuit for Imaging Sensor	Patent #6,166,367	9706
	Correction of Missing Codes Nonlinearity in A to D Converters	Patent #6,255,970	9708
_	Charge-Domain Analog Readout for an Image Sensor	Patent #6,222,175	9712
,	A/D Converter Correction Scheme	Patent #8,191,714	9713
<u> </u>	Active Pixel Sensor With Current Mode Readout	Patent #6,194,696	9714
_	Differential Non-Linearity Correction Scheme	Patent #8,215,428	9716
)	CMOS Image Sensor with Different Pixel Sizes for Different Colors	Patent #6,137,100	9718
_	Pulse-Controlled Light Emitting Diode Source	Patent #6,222,172	9801
_	CMOS Voltage Comparator Capable of Operating With Small Input Voltage Difference	Patent #6,184,721	9809
,	Using Single Lookup Table To Correct Differential Non-Linearity Errors In An Array Of A/D Converters	Patent #6,211,804	9813
1	Concentric Lens with Aspheric Correction	Patent #6,097,545	9816
•	Using Cascaded Gain Stages for High-Gain and High-Speed Readout of Pixel Sensor Data	Patent #6,229,134	9817
9	Lock-In Pinned Photodiode Photo-detector	Patent #6,239,456	9822
0	Ping-Pong Readout	Patent #6,204,792	9828
1	Nonlinear Flash Analog To Digital Converter Used In Active Pixel System	Patent #6,295,013	9818 9819
	PHOTOBIT/GENTEX JOINTLY OWNED IP		
_	Wide Dynamic Range Optical Sensor	Patent #6,008,486	
	Vehicle Vision System	Patent Application Serial No. 09/001,855	
_	PATENT APPLICATIONS		200
	Dead Pixel Correction by Row/Column Substitution	Patent Application Serial No. 09/031,145	9602
!	Color Interpolation	Patent Application Serial No. 09/028,961	9604
,	Double Comparison Successive Approximation Method and Apparatus	Patent Application Serial No. 09/360,294	9701
•	Digital Exposure Circuit For An Image Sensor	Patent Application Serial No. 09/298,306	9705
5	Method and Circuit for Fast and Accurate Adjustment of Integration Time for CMOS APS Cameras	Patent Application Sertal No. 09/281,765	9707
5	Smart Column Controls for High Speed Multi-Resolution Sensors	Patent Application Serial No. 09/251,758	9709
7	Increasing Readout Speed in CMOS APS Sensors through Block Readout	Patent Application Serial No. 09/274,739	9710
8	Active Pixel Color Linear Sensor With Line-Packed Pixel Readout	Patent Application Serial No. 09/252,428	9711
9	Three Sided Buttable CMOS Image Chip	Patent Application Serial No. 09/211,718	9715

	Photobit Patent or Provisional Application Title	Description/Comments	PB NTR #
10	Photodiode-Type Pixel For Global Electronic Shutter And Reduced Lag	Patent Application Serial No. 09/025,079	9717
11	Wide Dynamic Range Fusion Using External Memory Look-Up	Patent Application Serial No. 09/299,066	9720
12	Active Pixel Sensor With Mixed Analog and Digital Signal Integration	Patent Application Serial No. 09/183,389	9721
13	Look Ahead Shutter Pointer Allowing Real Time Exposure Control	Patent Application Serial No. 09/038,888	9802
14	Readout Circuit With Gain and Analog-to-Digital Conversion For Image Sensor	Patent Application Serial No. 09/264,501	9803
15	Using A Single Control Line To Provide Select And Reset Signals In Two Rows Of A Digital Imaging Device	Patent Application Serial No. 09/250,623	9804
16	High Resolution CMOS Circuit Using a Matched Impedance Output Transmission Line	Patent Application Serial No. 09/359,056	9806
17	Reducing Internal Bus Speed in a Bus System Without Reducing Readout Rate	Patent Application Serial No. 09/359,068	9807
18	RAM Line Storage for Fixed Pattern Noise Correction	Patent Application Serial No. 09/066,508	9808
19	Latched Row Logic for a Rolling Exposure Snap	Patent Application Serial No. 09/261,361	9810 9812
20	Analog To Digital Converter with Internal Data Storage	Patent Application Serial No. 09/281,358	9811
21	Low Light Sensor Signal to Noise Improvement	Patent Application Serial No. 09/359,065	9814
22	Nonlinear Flash Analog to Digital Converter Used in Active Pixel System	Patent Application Serial No. 09/161,355	9818 9819
23	Oversampled Centroid A to D Converter	Patent Application Serial No. 09/430,625	9820
24	Over Sampled CMOS Image Sensor	Patent Application Serial No. 09/429,776	9821
25	Pinned Floating Photoreceptor With Active Pixel Sensor	Patent Application Serial No. 09/397,381	9823
26	Oversampled CMOS image Sensor	Patent Application Serial No. 09/430,734	9825
27	Optical Range Finder	Patent Application Serial No. 09/429,882 Patent Application	9826
28	Color Correction of Multiple Colors Using A Calibrated Technique	Serial No. 09/209,982 Patent Application	9827
29	Micro Power Micro-Sized CMOS Active Pixel	Serial No. 09/416,961 Patent Application	9829
30	ALow Power Signal Chain for Image Sensors CMOS APS	Serial No. 09/590,785 Patent Application	9831
31	Matched Color CMOS Sensor	Serial No. 09/267,503	9832
32	Clear Plastic Packaging in a CMOS Active Pixel Image	Application Serial No. 09/442,871	
33	Semiconductor Imaging Sensor Array Devices With Dual-Port Digital Readout for CMOS Image Sensor	Patent Application Serial No. 09/449,194	9833
34	High-Speed Sampling Of Signals In Active Pixel Sensors	Patent Application Serial No. 09/527,422	9834
35	Multi-Chip Addressing For The PC Bus	Patent Application Serial No. 09/459,720	9835
36	Circuits larger than the max. Reticle size in deep sub micron process	Patent Application Serial No. 09/523,127	9836
37	Compensation for Optical Distortion at Imaging Plane	Patent Application Serial No. 09/354,930	9837

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	Photobit Patent or Provisional Application Title	Description/Comments	PB NTR #
18	Contoured Surface of Image Plane Array Cover Plate	Patent Application Serial No. 09/470,284	9839
			9901
9	Backside Illumination of CMOS Image Sensor	Patent Application Serial No. 09/483,362	
ю	A Technique For Flagging Oversaturated Pixels	Patent Application Serial No. 09/505,645	9902
	Diagonalized Image Sensor Pixels For Improved Effective Performance	Patent Application	9903
11	Diagonalized image Sensor Pixels For Improved Elective Performance	Serial No. 09/507,565	
12	Active Pixel Sensor With Fully-Depleted Buried Photoreceptor	Patent Application Sensi No. 09/516,433	9904
	A Divid Banklar	Patent Application	9905
13	An Analog Solution for Oversaturated Pixel Problem	Serial No. 09/522,287	
14	Superposed Multi-Junction Color APS	Patent Application Serial No. 09/522,288	9906
45	Multi Junction APS with Dual Simultaneous Integration	Patent Application Serial No. 09/519,930	9907
	A Novel Idea for a New Readout Structure of APS	Patent Application	8008
16	V VOAS IQE IQ. S MAN VORCOOL OF DOTHER OF VS. 2	Serial No. 09/595,592	9909 9910
47	Increasing Pixel Conversion Gain in CMOS Image Sensors	Patent Application	9912
	History and South State of the	Serial No. 09/553,980	0015
48	Dual Sensitivity Image Sensor	Patent Application Serial No. 09/596,757	9915
49	Layout Technique For Semiconductor Processing Using Stitching	· Patent Application	9916
	Layou rounings rounds	Serial No. 09/687,266	9917
50	Active Pixel Sensor with Reduced Fixed Pattern Noise	Patent Application Serial No. 09/550,816	9918
51	Low Voltage Analog-To-Digital Converters With Internal Reference Voltage and Offset	Patent Application Serial No. 09/538,043	9922
52	Techniques to Increase Signal Dynamic Range in CMOS APS	Patent Application Serial No. 09/653,527	9923
53	Low Power Analog-To-Digital Conversion	Patent Application Serial No. 09/528,310	9926
54	Calibration Circuit for Successive Approximation ADC.	Patent Application	9927
		Serial No. 09/746,565 Patent Application	9929
55	P-Type Reset/Readout Circultry for Rediation Hard APS	Serial No. 09/648,403	9931
56	Novel Lenses Using Coherent Optical Fiber Bundles	Patent Application Serial No. 09/745,854	9031
57	Dynamic Histogram Equalifization for High Dynamic Range Images	Patent Application Serial No. 09/778,151	9933
58	Compact Realization of 2-Reset Pointer Rolling Shutter in CMOS Sensor	Patent Application	9935
30	Compact results of a record of the record of	Serial No. 09/776,400	
59	Testing Of Solid-State Image Sensors	Patent Application Serial No. 09/692,742	9941
	Adjustable Color-Plane-Pixel Integration Times for Asynchronous Pixel Saturation	Patent Application	9943
60	Adjustable Color-Plane-Pixel integration Talles for Asylicationous Pixel Calculation	Serial No. 09/761,868	
61	Improved Method for Flushed Reset	Patent Application Serial No. 09/858,748	9944
62	A New Frame-Shutter Pixel Structure with an Isolated Storage Node	Patent Application Serial No. 09/792,634	9945
63	Frame-Shuttering Scheme For Increased Frame Rate	Patent Application Serial No. 09/792,292	9946
_		Patent Application	9948
64	Shared Photodetector Active Pixel	Serial No. 09/681,639	
65	An Optimal Layout Technique for Row/Column Decoders to Reduce Number of Blocks	Patent Application Serial No. 09/860,031	9950
66	Microlenses With Spacking Elements To Increase An Effective Use of Substrate	Patent Application Serial No. 09/859,224	2004 2006
67	Pixel Optimization for Color	Patent Application Serial No. 09/922,507	2009

	Photobit Patent or Provisional Application Title	Description/Comments	PB NTR #
8	Image Sensing System With Histogram Modification	Patent Application Serial No. 09/761,218	2012
9	Image Sensor Having Boostled Reset	Patent Application Serial No. 09/917,195	2014 2015
5	A High-Speed Analog-To-Digital Converter Using Multiple Staggered Successive Approximation Cells	Provisional Patent Application	2016
_	White Spot Reduction For CMOS Imaging	Serial No. 60/243,324 Provisional Patent Application	2017
2	New Architecture For High-Speed ADC Using Multiple Successive Approximation Cells	Serial No. 60/243,328 Provisional Patent Application Serial No. 60/253,430	2019
5	CMOS Sensor With Dual Column Parallel Analog-To-Digital Converters	Provisional Patent Application Serial No. 60/313,117	2020
-	Reference Voltage Circuit For Differential Analog-To-digital Converter (ADC)	Provisional Patent Application Serial No. 60/247,401	2021
5	Pseudo Random Assignment To Remove FPN Of High-Speed ADC Using Multiple Successive Approximation Cells	Provisional Patent Application Serial No. 60/306,753	2022
6	Frame-Scale Package	Provisional Patent Application Serial No. 60/245,085	2024
7	Black-Level Compensation With On-Chip successive Approximation ADC	Provisional Patent Application Serial No. 60/244,412	2025
В	An Improved Frame Shutter For CMOS APS	Provisional Patent Application Serial No. 60/243,899	2026
9	Wide Dynamic Range Operation For CMOS Sensor With Freeze-Frame Shutter	Provisional Patent Application Serial No. 60/243,898	2027
0	Freeze-Frame Shutter Imager With Increased Dynamic Range	Provisional Patent Application Serial No. 60/242,215	2029
1	Power Optimization For Class A Amplifier With Variable Signal Gain By matching Of Unity Gain Bandwidth To the Demanded Gain	Provisional Patent Application Serial No. 60/285,431	2030
2	Dynamic Range Extension in Color CMOS Active Pixel Sensors	Provisional Patent Application Serial No. 60/259,352	2030
3	Reducing Power Consumption And Noise In CMOS APS Sensor Through Block Read-Out	Patent Application Serial No. 09/901,280 Provisional Patent	2102
4	Reducing KTC Noise in 3T and 5T CMOS APS	Application Serial No. 60/281,603	
15	Reference Voltage Stabilization In CMOS Sensors	Patent Application Filed 10/12/01 Serial No. pending	2109
36	Low Power Differential Charge Mode Readout Circuit, Pipelined Gain Stage, And Pipelined ADC For CMOS Active Pixel Sensors	Provisional Patent Application Serial No. 60/280,589	2110
37	A New Row Driver Circuit For CMOS APS Using Shared Row-Reset Pixels And Charge Pump Boosting Circuit	Patent Application Serial No. 09/876,648	2111
8	Temperature Sensor Using The Image Read-Out Signal Chain Of An Active Pixel Image Sensor Having Double Sampling Of A Pixel Reset Voltage And A Pixel Image Voltage Level	Serial 110. 00/300,710	2112
89	Method For Optimizing Microlens/CFA/Pixel Cooperative Performance In Image Sensors	Provisional Patent Application Serial No. 60/286,908	2113
90	On-Chip ADC Test for Image Sensors	Provisional Patent Application Serial No. 60/313,122	2115
91	Variable Pixel Clock Electronic Shutter Control Algorithm For Corruption-Free Image Stream During Pixel Speed Changes	Provisional Patent Application Serial No. 60/306,744	2118
92	An Architecture For Increased Dynamic Range in CMOS APS	Provisional Patent Application	2119

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	Photobit Patent or Provisional Application Title	Description/Comments	PB NTR #
-	I HOGOTA 2 decision of the second of the sec	Serial No. 60/607,514	
93	Flexy-Power Amplifier: A New Amplifier With Built-In Power Management	Provisional Patent Application Serial No. 60/307,513	2120

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Attorney Docket No: 08305/124001/PBIT-0164.00/US

#### <u>ASSIGNMENT</u>

For valuable consideration, I, KWANG-BO CHO of Los Angeles, CA, hereby assign to: Micron Technology, Inc., a corporation of Delaware having a place of business at: 8000 South Federal Way, Boise, ID 83707-0006; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me, entitled ON-CHIP ADC TEST FOR IMAGE SENSORS, filed August 16, 2002, and assigned U.S. Serial Number 10/222,773, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

	Attorney Docket No: 08303/124001/PB11-0164.00/US
IN WITNESS WHEREOF, I hereto set my h	and and seal at Los Angoles, CA
this day of//	U ,
	L.S.
KWANG-BO CHO	
State of <u>California</u> : : ss.  County of <u>Los Augeles</u> :	
County of Los Augeles:	
Before me thisday of	vovember, 20_02, personally
appeared KWANG-BO CHO known to me to b	
foregoing Assignment and acknowledged that he	executed the same as his free act and deed for
the purposes therein contained.	
	Mary Cr
	y Public
My C	emmission Expires: Sept. 13, 2004
[Notary's Seal Here]	,
10223930.doc  MICHAEL CHU Commission # 12740 Notary Public - Califor Los Angeles Count My Comm. Expires Sep 13	nda Š